

Table 3  
Areas of Potential Concern Identification Criteria

| <u>Contaminant</u> | <u>Contaminant Breakdown</u> | <u>Screening Chemical</u>           | <u>Screening Criteria</u>       | <u>Screening source</u>                  |
|--------------------|------------------------------|-------------------------------------|---------------------------------|--|
| PCB                | Aroclor 1221                 | Total PCBs (ug/kg)                  | 0 - 34                          | DEQ SLV II Freshwater sediment           |
|                    | Aroclor 1242                 |                                     | 34 - 340                        | SLV II to SLV II x 10                    |
|                    | Aroclor 1248                 |                                     | 340 - max                       | Exceeds SLV II x 100                     |
|                    | Aroclor 1254                 |                                     |                                 |  |
|                    | Aroclor 1260                 |                                     |                                 |  |
|                    | Aroclor 1268                 |                                     |                                 |  |
| DDT                | o,p DDE                      | Total DDT (ug/kg)                   | 0 - 5.28                        | TEC                                      |
|                    | o,p DDD                      |                                     | 5.28 - 56                       | TEC to mid-range                         |
|                    | o,p DDT                      |                                     | 56 - 572                        | Mid-range to PEC                         |
|                    | p,p DDE                      |                                     | 572 - max                       | Exceeds PEC                              |
|                    | p,p DDD                      |                                     |                                 |  |
|                    | p,p DDT                      |                                     |                                 |  |
| PAH                | LPAH (1)                     | Total PAH (ug/kg)                   | 0 - 1610                        | TEC                                      |
|                    | HPAH (2)                     |                                     | 1610 - 22,800                   | TEC - PEC                                |
|                    |                              |                                     | 22,800 - max                    | Exceeds PEC                              |
| Metals             | Cadmium                      | Individual Metals (mg/kg)           | Cd > 4.98                       | Exceeds PEC                              |
|                    | Chromium                     |                                     | Cr . 111                        | Exceeds PEC                              |
|                    | Copper                       |                                     | Cu > 149                        | Exceeds PEC                              |
|                    | Lead                         |                                     | Pb > 128                        | Exceeds PEC                              |
|                    | Mercury                      |                                     | Hg > 1.06                       | Exceeds PEC                              |
|                    | Nickel                       |                                     | Ni > 48.6                       | Exceeds PEC                              |
|                    | Zinc                         |                                     | Zn > 459                        | Exceeds PEC                              |
| TBT                | Butyltin ion                 | Individual Bbutyltins               | 190                             | Exceeds DEQ Level II Bioaccumulation SLV |
|                    | Dibutyltin dichloride        |                                     | 190                             | Exceeds DEQ Level II Bioaccumulation SLV |
|                    | Dibutyltin ion               |                                     | 190                             | Exceeds DEQ Level II Bioaccumulation SLV |
|                    | Monobutyltin chloride        |                                     | 190                             | Exceeds DEQ Level II Bioaccumulation SLV |
|                    | Tetrabutyltin                |                                     | 190                             | Exceeds DEQ Level II Bioaccumulation SLV |
|                    | Tributyltin                  |                                     | 190                             | Exceeds DEQ Level II Bioaccumulation SLV |
|                    | Tributyltin choride          |                                     | 190                             | Exceeds DEQ Level II Bioaccumulation SLV |
| Phthalates         | Bis(2-ethylhexyl) phthalate  | Bis(2-ethylhexyl) phthalate (ug/kg) | 750                             | Exceeds NOAA Upper Effects Level         |
| Toxicity           | Not Applicable               | Not Applicable                      | Percent difference from control | (3)                                      |

(1) Also screened low molecular weight PAHs (LPAH) against Great Lakes PEL (1200 ug/kg)

(2) Also screened high molecular weight PAHs (HPAH) against Great Lakes PEC (2300 ug/kg)

(3) Sediment toxicity was screened using NOAA initial analysis of Round 2 Bioassays based on percent different from control and DEQ generated hit/no hit criteria for SedQual analysis; 7 different hit/no hit results were considered in a line of evidence approach